

IN THE CLAIMS

1-12. (Cancelled).

13. (Currently amended) A process comprising contacting (1) a perfluoropolyether acid fluoride with a metal bromide or metal iodide or (2) heating a perfluoropolyether secondary halide, each under a condition sufficient to effect the production of a perfluoropolyether comprising at least one bromine or iodine in the primary position of one or more end groups of the perfluoropolyether ~~wherein said process is carried out substantially free of a solvent.~~

14. (Currently amended) A process according to claim 13 wherein said acid fluoride moiety comprises ~~CF<sub>2</sub>OCF(CF<sub>3</sub>)COF moiety~~ process is carried out under a condition or in a medium that is substantially free of a solvent or iodine or both.

15. (Currently amended) A process according to claim 13 wherein said perfluoropolyether is a perfluoropolyether primary iodide and said process ~~comprises contacting said perfluoropolyether primary iodide with carbon tetrabromide~~ process is carried out under a condition or in a medium that is substantially free of a metal salt that is not a metal halide.

16. (Currently amended) A process according to claim 13 wherein said process comprises contacting said perfluoropolyether acid fluoride with said metal bromide or metal iodide and the metal moiety of said metal bromide or metal iodide is selected from the group consisting of lithium, calcium, barium, aluminum, boron, and combinations of two or more thereof mixed metal bromides, mixed metal iodides, or combinations thereof.

17. (Currently amended) A process according to claim 16 wherein said mixed metal bromide and iodide is mixed metal bromides, mixed metal iodides, or combinations thereof ~~a mixture of aluminum bromide and boron bromide.~~

18. (Currently amended) A process according to claim 13 wherein the ~~metal moiety of said metal bromide or metal iodide is selected from the group~~

~~consisting of lithium, calcium, barium, aluminum, boron, and combinations of two or more thereof~~ said process comprises heating said perfluoropolyether secondary halide under a condition sufficient to effect the production of a perfluoropolyether comprising at least one bromine or iodine in the primary position of one or more end groups of the perfluoropolyether.

19. (Currently amended) A process comprising contacting a perfluoropolyether acid fluoride with a metal bromide or metal iodide under a condition sufficient to effect the production of a perfluoropolyether, which comprises ~~an acid fluoride moiety and~~ at least one bromine or iodine at the primary position of one or more end groups ~~wherein said process is carried out substantially free of a solvent and said perfluoropolyether comprises repeat units derived from the group consisting of~~

~~CF<sub>2</sub>O, CF<sub>2</sub>CF<sub>2</sub>O, CF<sub>2</sub>CF(CF<sub>3</sub>)O, CF(CF<sub>3</sub>)O, CF(CF<sub>3</sub>)CF<sub>2</sub>O, CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>O, CF(CF<sub>3</sub>)O, CF<sub>2</sub>CF(CF<sub>3</sub>)O, CF<sub>2</sub>CF(CF<sub>2</sub>CF<sub>3</sub>)O, CF<sub>2</sub>CF(CF<sub>2</sub>CF<sub>2</sub>CF<sub>3</sub>)O, CF(CF<sub>2</sub>CF<sub>3</sub>)O, CF(CF<sub>2</sub>CF<sub>2</sub>CF<sub>3</sub>)O, CH<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>O, CF(Cl)CF<sub>2</sub>CF<sub>2</sub>O, CF(H)CF<sub>2</sub>CF<sub>2</sub>O, CCl<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>O, CH(Cl)CF<sub>2</sub>CF<sub>2</sub>O, and combinations of two or more thereof.~~

20. (Currently amended) A process according to claim 19 wherein said ~~acid~~ perfluoropolyether acid fluoride further comprises an acid fluoride moiety having the formula of COF at a secondary position of the perfluoropolyether acid fluoride.

21. (Currently amended) A process according to claim ~~20~~ 19 wherein said perfluoropolyether acid fluoride comprises a CF<sub>2</sub>OCF(CF<sub>3</sub>)COF moiety.

22. (Currently amended) A process according to claim 19 wherein said perfluoropolyether acid fluoride is a ~~perfluoropolyether primary iodide and said process comprises contacting said perfluoropolyether primary iodide with carbon tetrabromide~~ monoacid fluoride or diacid fluoride.

23. (Original) A process according to claim 19 wherein said process comprises contacting said perfluoropolyether with mixed metal bromides, mixed iodides or combinations thereof.

24. (Currently amended) A process according to claim 23 wherein said ~~mixed metal bromide and iodide is a mixture of aluminum bromide and boron bromide~~ process is carried out substantially free of a solvent.

25. (Original) A process according to claim 19 wherein the metal moiety  
5 of said metal bromide or metal iodide is selected from the group consisting of lithium, calcium, barium, aluminum, boron, and combinations of two or more thereof.

26. (Original) A process according to claim 19 wherein said perfluoropolyether comprises repeat units derived from  $-\text{CF}(\text{CF}_3)\text{CF}_2\text{O}-$ .

10 27. (New) A process according to claim 19 wherein the perfluoropolyether of said perfluoropolyether acid fluoride comprises repeat units derived from the group consisting of  
 $-\text{CF}_2\text{O}-$ ,  $-\text{CF}_2\text{CF}_2\text{O}-$ ,  $-\text{CF}_2\text{CF}(\text{CF}_3)\text{O}-$ ,  $-\text{CF}(\text{CF}_3)\text{O}-$ ,  $-\text{CF}(\text{CF}_3)\text{CF}_2\text{O}-$ ,  
 $-\text{CF}_2\text{CF}_2\text{CF}_2\text{O}-$ ,  $-\text{CF}(\text{CF}_3)\text{O}-$ ,  $-\text{CF}_2\text{CF}(\text{CF}_3)\text{O}-$ ,  $-\text{CF}_2\text{CF}(\text{CF}_2\text{CF}_3)\text{O}-$ ,  
15  $-\text{CF}_2\text{CF}(\text{CF}_2\text{CF}_2\text{CF}_3)\text{O}-$ ,  $-\text{CF}(\text{CF}_2\text{CF}_3)\text{O}-$ ,  $-\text{CF}(\text{CF}_2\text{CF}_2\text{CF}_3)\text{O}-$ ,  
 $-\text{CH}_2\text{CF}_2\text{CF}_2\text{O}-$ ,  $-\text{CF}(\text{Cl})\text{CF}_2\text{CF}_2\text{O}-$ ,  $-\text{CF}(\text{H})\text{CF}_2\text{CF}_2\text{O}-$ ,  $\text{CCl}_2\text{CF}_2\text{CF}_2\text{O}-$ ,  
 $-\text{CH}(\text{Cl})\text{CF}_2\text{CF}_2\text{O}-$ , and combinations of two or more thereof.

28. (New) A process according to claim comprising contacting a  
perfluoropolyether primary iodide with carbon tetrabromide to produce a primary  
20 perfluoropolyether primary bromide.